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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/525,277	02/22/2005	Gavin Paul Vinson	133088.00301(P33791US)	6075
35151 Pepper Hamilto	7590 11/25/200 n LLP	EXAMINER		
400 Berwyn Par	rk	YAEN, CHRISTOPHER H		
899 Cassatt Road Berwyn, PA 19312-1183			ART UNIT	PAPER NUMBER
•			1643	
			MAIL DATE	DELIVERY MODE
			11/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/525,277	VINSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	CHRISTOPHER H. YAEN	1643			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MEDICAL STATE OF TH	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>02 N</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under Expression in the practice of the	action is non-final.				
Disposition of Claims					
4) Claim(s) 12,14,18-21 and 25-32 is/are pending 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 14,18-21,25-27 and 29-32 is/are allow 6) Claim(s) 12 and 28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable 25-32 is/are pending	wn from consideration. ved. r election requirement.	≣xaminer.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/2/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 11/2/2009 has been entered.
- 2. Claims 12, 14, 18-21, and 25-32 are pending and examined on the merits. The Information Disclosure Statement filed on 11/2/2009 is acknowledged and considered. A signed copy of the IDS is attached hereto.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 12 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujisawa et al (CA2093495-A, previously cited) or Vinson et al (WO 95/09186, previously cited) and Humphries et al (J. of Tissue Culture Methods, 1994, Vol 16, pages 239-242).
 - a. Fujisawa et al and Vinson et al both teach a peptide comprising a sequence of Seq ID No: 1 as previously indicated (see Office Action mailed 12/4/2008).
 - b. Fujisawa *et al* nor Vinson et al fail to specifically teach the peptide of Seq Id No: 1 conjugated to a carrier protein. This deficiency is remedied by the teaching of Humphries *et al*.
 - c. Humphries *et al* is cited as a general reference teaching the general knowledge at the time of the invention that peptides can be conjugated to carrier proteins.

It would have been prima facie obvious to those of skill in the art at the time of the invention that the state of the art with regard to conjugation of carriers to peptides was well known and practiced in the art. Those of skill in the art would have found the conjugation of a peptide to a sequence of SEQ ID No: 1 as an obvious modification that can be made to a protein. Moreover, those of skill in the art would have been motivated

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to do so because the techniques was used by those of skill in the art well before the filing of the instant invention. Therefore, the invention is obvious in view of the combination of references.

Conclusion

Claims 12 and 28 are rejected. Claims 14,18-21, 25-27, and 29-32 are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER H. YAEN whose telephone number is (571)272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, Ph.D. can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher H Yaen/ Primary Examiner, Art Unit 1643